

Contents

Preface	v
Acknowledgements	vii
Executive Summary	xi
Henning von Nordheim, Dieter Boedeker, Jochen C. Krause and Monica Verbeek	
Introduction	1
Part I MPAs in the German EEZ – conventions and legal aspects	
1 International conventions for marine nature conservation and marine protected areas relevant to the North Sea and the Baltic Sea	5
Henning von Nordheim, Dieter Boedeker and Jochen C. Krause	
2 Marine Protected Areas in the EEZ in light of international and European Community law – Legal basis and aspects of implementation	27
Detlef Czybulka and Thomas Bosecke	
Part II Site selection procedure	
3 Interpretation, identification and ecological assessment of the NATURA 2000 habitats “sandbank” and “reef”	47
Dieter Boedeker, Jochen C. Krause and Henning von Nordheim	
4 Rationale behind site selection for the NATURA 2000 network in the German EEZ	65
Jochen C. Krause, Dieter Boedeker, Ina Backhausen, Kathrin Heinicke, Anette Groß and Henning von Nordheim	
Part III Identification and assessments of habitats	
5 Identification of submarine banks in the North Sea and the Baltic Sea with the aid of TIN modelling	97
Andreas Klein	
6 Identification of submarine hard-bottom substrates in the German North Sea and Baltic Sea EEZ with high-resolution acoustic seafloor imaging	111
Markus Diesing and Klaus Schwarzer	

7	Search for particularly valuable benthic areas within the German North Sea EEZ	127
	Eike Rachor	
8	Benthic assessment of marine areas of particular ecological importance within the German Baltic Sea EEZ	141
	Michael Zettler and Fritz Gosselck	
 Part IV Identification and assessments of sites – fish, mammals and birds		
9	Survey of NATURA 2000 fish species in the German North and Baltic Seas	157
	Ralf Thiel and Ina Backhausen	
10	Utilisation of time and space by harbour seals (<i>Phoca vitulina vitulina</i>) determined by new remote-sensing methods	179
	Nikolaus Liebsch, Rory Wilson and Dieter Adelung	
11	Evaluating the distribution and density of harbour porpoises (<i>Phocoena phocoena</i>) in selected areas in German waters	189
	Meike Scheidat, Anita Gilles and Ursula Siebert	
12	Seasonal and geographical variation of harbour porpoise (<i>Phocoena phocoena</i>) habitat use in the German Baltic Sea monitored by passive acoustic methods (PODs)	209
	Ursula K. Verfuß, Christopher G. Honnef and Harald Benke	
13	Identification of areas of seabird concentrations in the German North Sea and Baltic Sea using aerial and ship-based surveys	225
	Stefan Garthe	
14	The MINOS project: ecological assessments of possible impacts of offshore wind energy projects	239
	Adolf Kellermann, Kai Eskildsen and Barbara Frank	
 Part V Public awareness and consultation		
15	Consultation and public involvement	249
	Annika Wallaschek	
16	Raising public awareness – ‘Habitat Mare NATURA 2000.de’	253
	Katrin Wolny-Goerke	
 Annex		261
Addresses of authors		